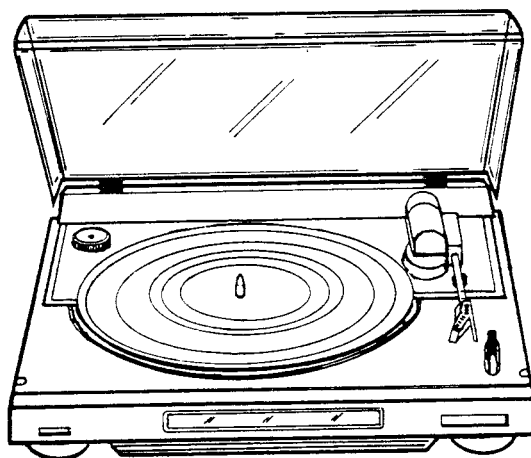




SERVICE MANUAL

MODEL : PL 350S/NST-24TT
AP-M395/PL-900

STEREO TURNTABLE



SPECIFICATIONS

* Turntable		* General	
Motor	: D.C. motor	Power source	: DC 12V (120/220V, 50/60Hz)
Speeds	: 33-1/3 and 45 R.P.M.	Dimensions	: 350mm(W) x 350mm(D) x 90mm(H)
Cueing device	: UP/DOWN with damped lifter	Weight	: 3.0kg
Wow & Flutter	: 0.3%(JIS WRMS)	Power Consumption	: 40mA (4W)
Rumble	: More than 50dB(DIN-B)	Accessories	: 45 R.P.M adapter
Turntable Platter	: Plastic 302 mm		
* Tone Arm			
Effective length	: 195mm		
Over hang	: 15mm		
Offset angle	: $22^{\circ} \pm 2^{\circ}$		
* Cartridge(Optional)			
	: Moving magnet type(Model : V-67BL)		
Frequency response	: 20-20,000 Hz		
Output voltage	: 4-6mV		
Channel balance	: Within 3dB at 1KHz		
Channel separation	: More than 18dB at 1KHz		
Load resistance	: 47K ohm		
Tracking force	: 1.75 ± 0.25 g		

Lubrication of the mechanism is not required. However, whenever a unit is brought in for adjustment or repair, always use good common sense...clean any dust or dirt from mechanical parts and if moving parts do seem to bind, check for dirt. If necessary, add a very fine film of light-weight specially formulated lubricant.

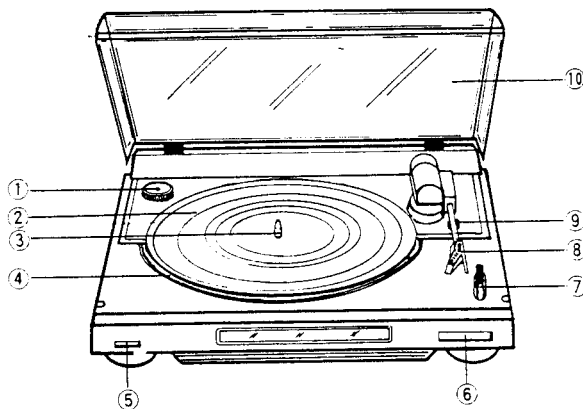
SERVICING NOTE

At the Schematic diagram, the exclamation point within an equilateral triangle is intended to alert the user on the presence of fire and shock hazard. During servicing of this appliance these exchanged replacement parts must have identical characteristics as PARTS LIST offered and recommended by Samsung electronics Co., LTD LTD.

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LOCATION OF PARTS



1. 45 rpm adaptor
2. Rubber mat
3. Center shaft
4. Platter
5. Speed selector
6. Reject button
7. Cueing lever
8. Head shell with cartridge
9. Arm rest
10. Dust cover

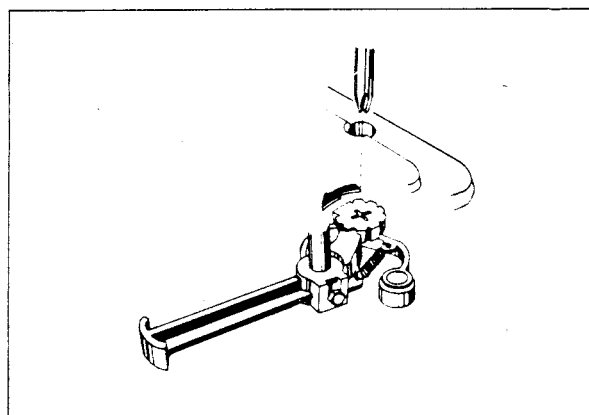
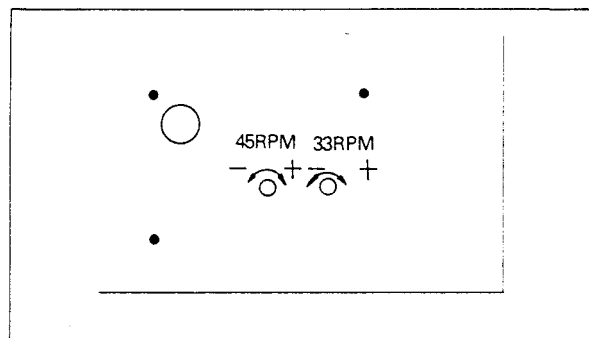
ADJUSTMENT

1. Speed control range adjustment.

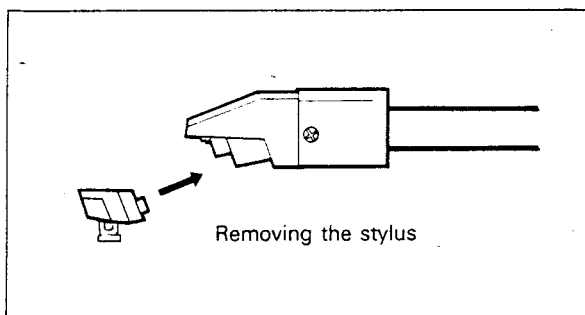
- 1) Select required speed.
- 2) Adjust semifix resistor (33 RPM) with small minus driver until speed becomes rating.
- 3) Repeat for second. (45 RPM)

2. Auto return-range adjustment.

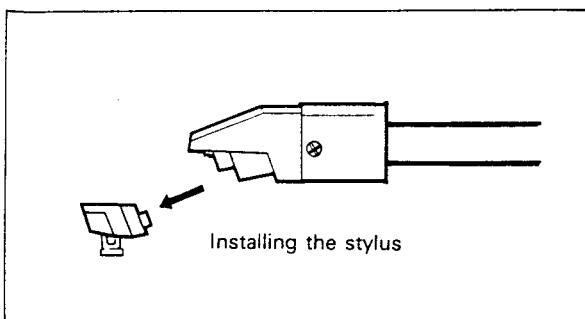
- 1) If tone arm returns to early or does not return at all, open the bottom cover and adjust the autoreturn point as follows.
- 2) Lock tone arm to the arm rest and turn adjust screw
 - A : Clockwise⇒Autoreturn point will be earlier.
 - B : Counterclockwise⇒Autoreturn point will be later.



STYLUS REPLACEMENT

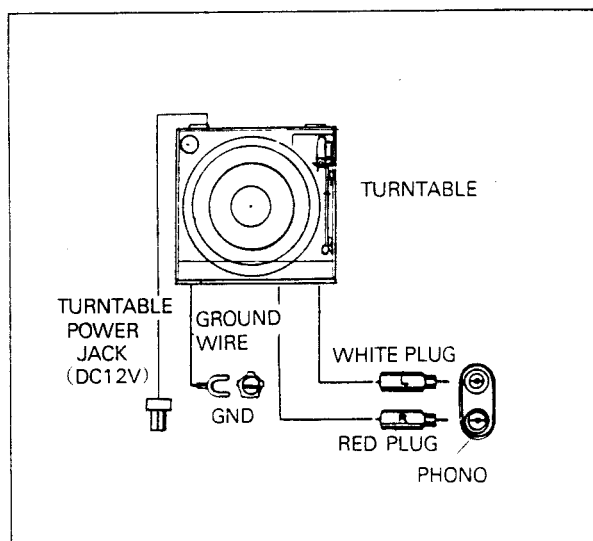


1. Set the POWER switch of the amplifier and turntable to OFF.
Pull out stylus in the direction of the arrow shown in the figure.



2. Replace with a new stylus in the reverse order of step 1 above.

CONNECTION

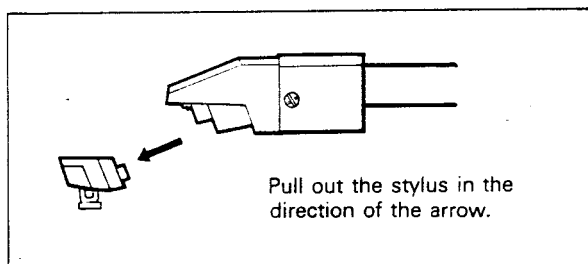


1. Connect the audio cables to the PHONO inputs of the amplifier. Use the red plug for the right channel (R) and the white plug for the left channel (L). Connect on your amplifier.

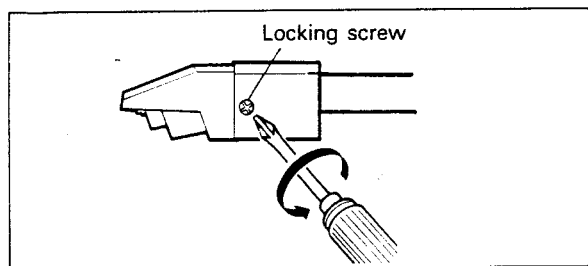
2. Connect the power jack to the socket of set rear.

Turntable phono terminal	Amplifier jack.
White plug (L : Left)	Phono L channel
Red plug (R : Right)	Phono R channel)

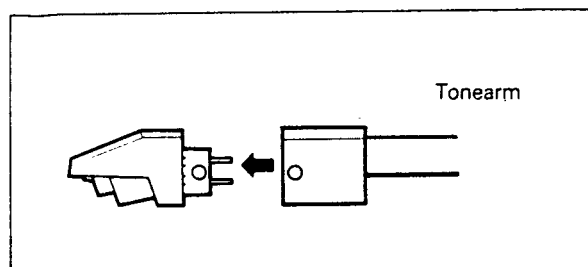
CARTRIDGE REPLACEMENT



1. Set the POWER switch of the amplifier and turntable to OFF.
Remove the stylus assembly.
(To protect the stylus, remove the stylus assembly beforehand.)



2. Remove the cartridge locking screw.

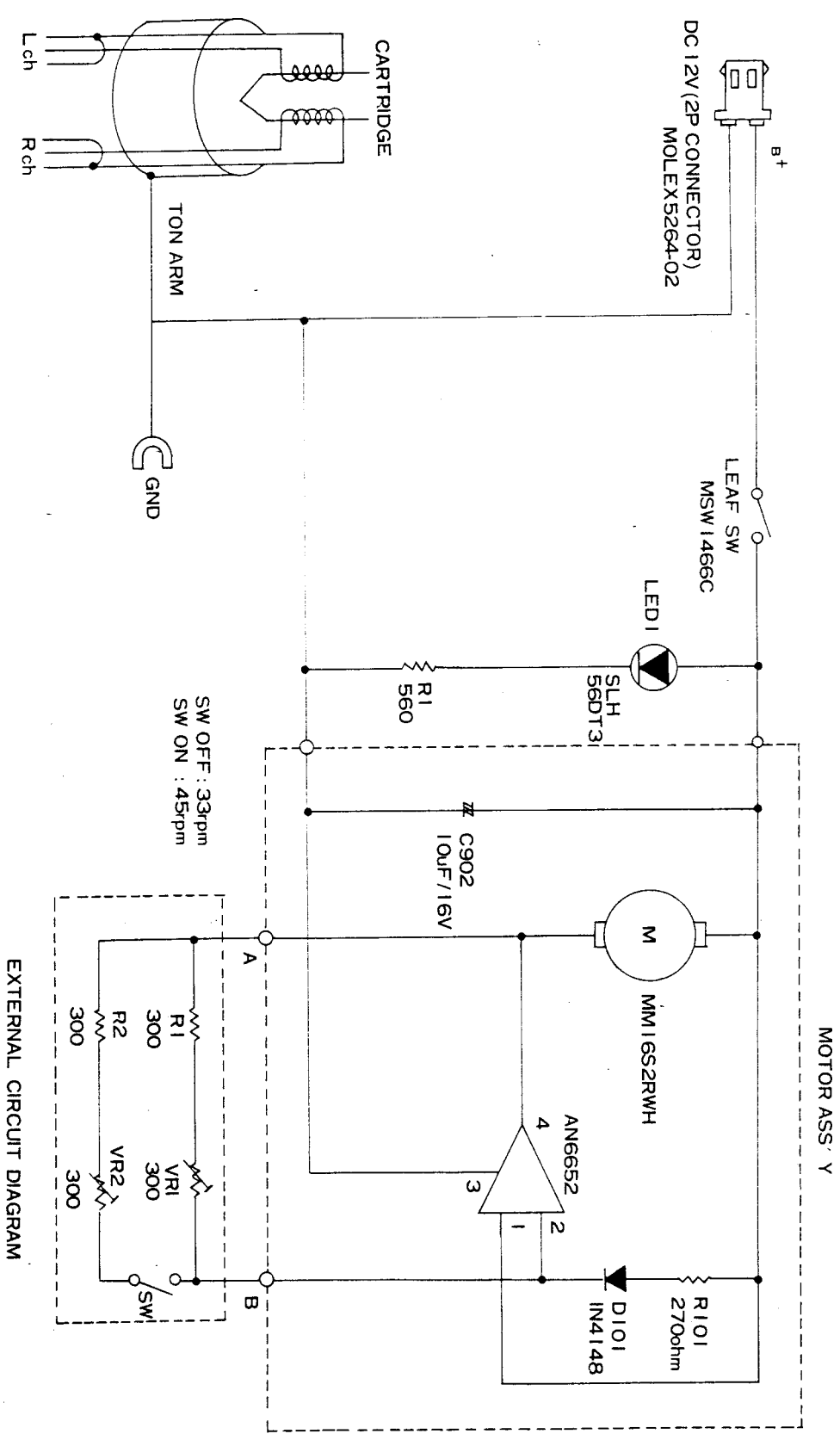


3. Pull out the cartridge from the tonearm.

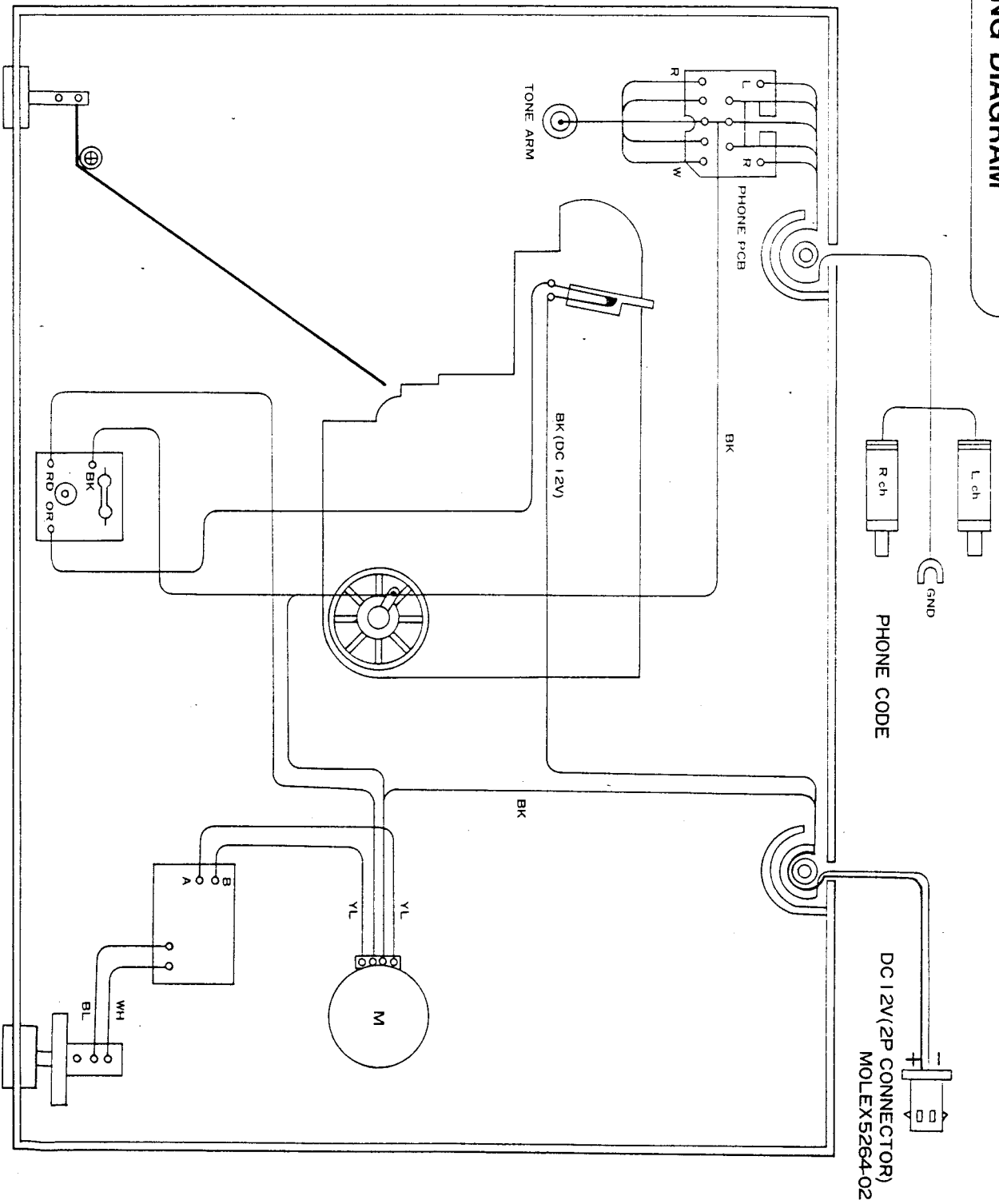
TROUBLESHOOTING GUIDE

NO.	FAULT	CAUSE	CORRECTION
1.	Turntable Speed.	1) No voltage to turntable.	Check power supply outlet. Check power cord in electronic controlled models.
	a) Will not start : No.1,2,5, 6 and 7.	2) Motor bearing binding or frozen.	Check assembly for mechanical damage, repair, lubricate or replace as indicated.
	b) Turns slow : No. 2,4,5 and 8	3) Drive belt defective or missing.	Determine cause of defect and correct. Replace belt.
		4) Oil on belt.	Determine cause of oil, clean or replace belt.
	c) Turns fast : No. 5 and 8.	5) Circuit defect in electronic control models.	Troubleshoot and repair, refer to circuit diagram.
		6) Defective switch.	Replace switch.
	d) Speed changes without apparent cause : No.2,3,4,5 and 9.	7) Wrong supply voltage.	Check input supply rating on turntable. Correct supply voltage condition.
		8) Speed control was adjusted improperly.	Set turntable into operation. Adjust VR1 (33 1/3) and VR2 (45).
		9) Two or more records on turntable, one record warped.	Remove Warped record.
2.	Pick-up Height.	1) Worn or damaged cams or levers.	Inspect worn or damaged parts. Replace and lubricate as required.
	a) Arm does not lift of record on return cycle :	2) Bent or damaged components.	Repair or replace.
		3) Improper lift adjustment.	Inspect damaged or missing parts. Repair, replace and lubricate as necessary.
	b) Arm lifter (cueing control) does not lift arm : No.1,2 and 3. c) Insufficient or excessive lift : No. 1,2 and 3. Pickup Lowering Position.	4) Arm lowering mechanism damaged or binding.	Inspect to determine cause of damage, replace, parts as required. Relubricate.
3.	Abnormal Sound.	1) Dust or dirt has collected on the stylus tip.	Clean the stylus tip with a soft brush.
	a) Excessive noise : No. 1 and 2.	2) Dust or dirt has collected on the record.	Clean the record with a good quality cleaner.
	b) Sounds is distorted. No. 2,3 and 4.	3) Stylus is worn.	Replace with new stylus.
		4) Amplifiers tone controls set too high.	Set tone controls to lower position.
	c) Intermittent sound : No.2,3,4 and 5.	5) Record is scratched or warped.	Replace record.
	d) No sound : No. 6.	6) Phono cables are not connected properly.	Connect cables securely to the PHONO input jacks on the amplifier. (See Instruction Manual Page.4).

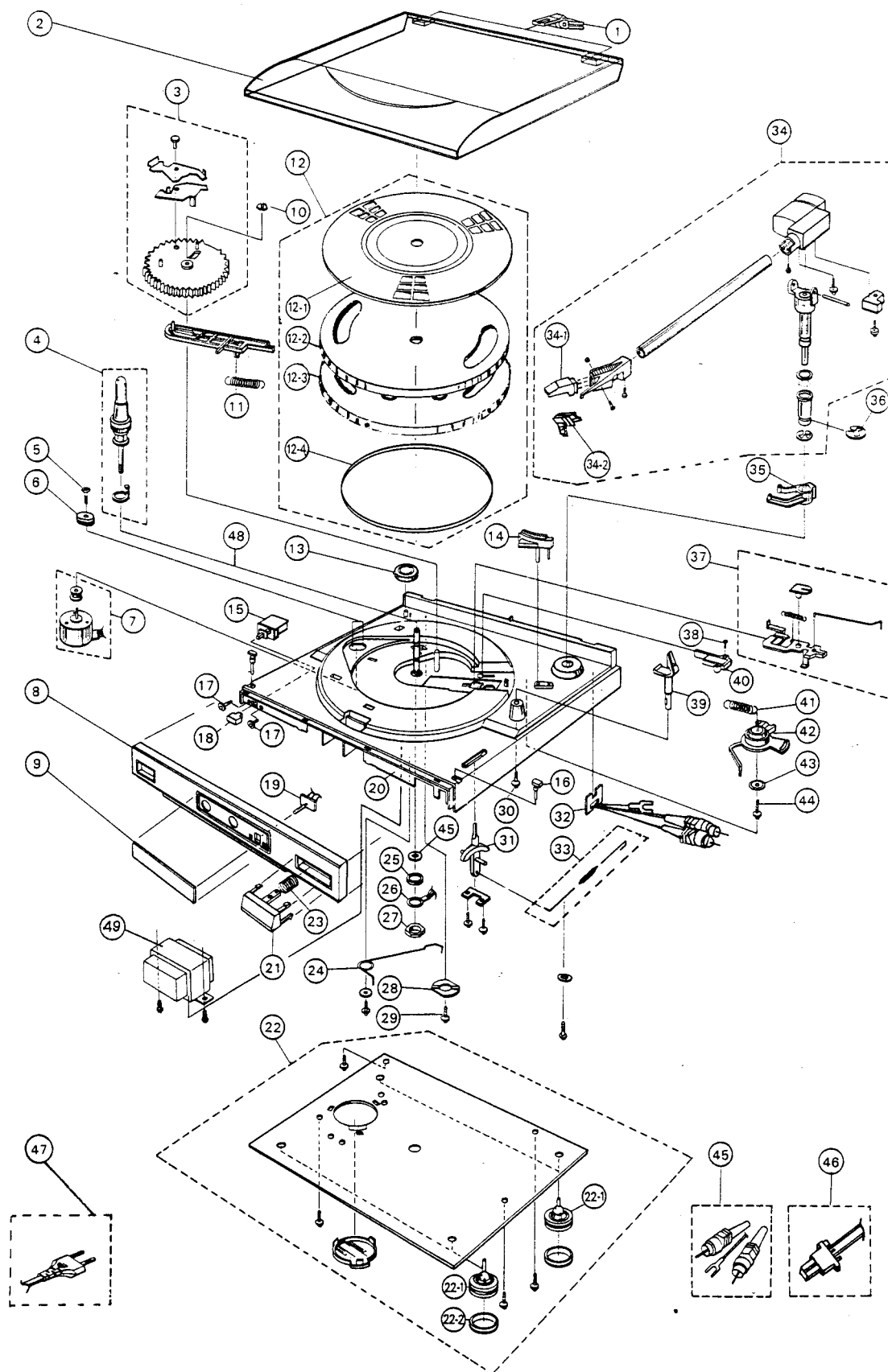
SCHEMATIC DIAGRAM



WIRING DIAGRAM



EXPLODED VIEW



MECHANICAL PART LIST

LOCATION NO.	CODE NO.	DESCRIPTION & SPECIFICATION	QTY	REMARK
1	10000-310-001	HINGE ASSY	2	
2	10000-310-002	DUST COVER	1	
3	10000-310-003	RING GEAR ASSY	1	
4	10000-310-009	CENTER SHAFT ASSY(ALUMINIUM)	1	
5	10000-310-011	SCREW MOTOR SETTING	1	
6	10000-310-012	CUSHION MOTOR	1	
7	10000-310-014	MOTOR ASSY	1	
8	10000-310-096	PANEL-FRONT(M/GRAY)	1	
	10000-310-017	PANEL-FRONT(HOTSTAMPING)	1	
	10000-310-096	PANEL-FRONT (M/GRAY)	1	
	10000-310-017	PANEL-FRONT (HOTSTAMPING)	1	
	10000-310-104	PANEL-FRONT (M/GRAY, NST-24TT)	1	
	10000-310-105	PANEL-FRONT (M/GRAY, AP-M395)	1	
	10000-310-106	PANEL-FRONT (M/GRAY, PL-900)	1	
9	10000-310-018	PLATE-DECO	1	
	10000-310-019	CS WASHER		
11	10000-310-020	ACTUATING ARM SPRING	1	
12	10000-310-021	PLATTER ASSY	1	
12-1	10000-310-022	RUBBER SHEET	1	
12-2	10000-310-023	PLATTER(AL)	1	
12-3	10000-310-101	PLATTER(PLASTIC)	1	
12-4	10000-310-024	RUBBER BELT	1	
13	10000-310-025	ADAPTOR EP	1	
14	10000-310-026	ARM ELEVATION	1	
15	10000-310-028	SWTCH PUSH	1	
16	10000-310-029	DUST COVER CUSHION	1	
17	10000-310-027	SCREW WPH	2	
18	10000-310-031	KNOB SPEED	2	
19	10000-310-032	LED ASSY	1	
20	10000-310-033	CABINET UPPER	1	
21	10000-310-034	KNOB REJECT	1	
22	10000-310-035	BOTTOM COVER ASSY	1	
22-1	10000-310-039	FOOT RUBBER	4	
22-2	10000-310-040	FOOT HOUSING	2	
23	10000-310-042	SPRING RETURN	1	
24	10000-310-043	LINK REJECT	1	
25	10000-310-046	WASHER SPRING	1	
26	10000-310-047	RING TERMINAL ASSY	1	
27	10000-310-048	NET HEX	1	
28	10000-310-049	STOPPER CORD	1	
29	10000-310-050	SCREW TAP WPH	1	
30	10000-310-051	SCREW TAP WPH	1	
31	10000-310-052	LIFTER HANDLE	1	
32	10000-310-055	PCB PHONO ASSY	1	
33	10000-310-056	CUE LINK ASSY	1	
34	10000-310-060	TONE ARM ASSY	1	
34-1	10000-310-061	CARTRIDGE ASSY (V-67BL)	1	
34-2	10000-310-064	STYLUS(N-67BL)	1	
35	10000-310-076	ARM FEED	1	
36	10000-310-077	E-RING	1	
37	10000-310-078	ACTUATOR ASSY	1	
38	10000-310-083	SCREW WPH	1	
39	10000-310-084	ARM STAND	1	
40	10000-310-085	SPRING ELEVATOR	1	
41	10000-310-086	SPRING ELEVATOR	1	
42	10000-310-087	ELEVATOR	1	
43	10000-310-088	WASHER PLAIN	1	
44	10000-310-089	SCREW TAP WPH	1	
45	10000-310-090	CORD PHONE	1	
46	10000-310-091	DC JACK (MOLEX5264)	1	
47	10000-310-103	POWER CORD	1	
48	10000-310-102	CENTER SHAFT (PLASTIC)	1	
49	10000-310-107	POWER ASSY (TRANS/PCB ASSY)	1	
	10000-312-102	SERVICE MANUAL (PL350S, NST-24TT, AP-M395, PL-900)	1	